

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A method of managing a data buffer comprising a queue of consecutive segments of data ~~packets~~packet segments in a base station system of a mobile communications system, comprising the steps of:

- said base station system comparing a size of a data packet segment with a size of a next consecutive data packet segment in said data buffer;
- said base station system identifying a complete data packet ~~in~~comprising at least said buffer data packet segment and said next consecutive data packet segment based on said comparison of said size of said data packet segment and said size of said next consecutive data packet segment; and
- said base station system discarding said identified complete data packet from said data buffer.

2. (currently amended) The method according to claim 1, wherein said identifying step comprises the steps of:

- identifying said next data packet segment as a first data packet segment of said complete data packet in said data buffer if said size of said data packet segment is smaller than said size of said next data packet segment; and
- associating said identified first data packet segment with a first segment identifierpointer.

3. (currently amended) The method according to claim 1, wherein said identifying step comprises the steps of:

- identifying said next data packet segment as a last data packet segment of said complete data packet in said dat buffer if said size of said data packet segment differs from said size of said next data packet segment; and
- associating said identified last data packet segment with a last segment-identifier pointer.

4. (currently amended) The method according to claim 2, wherein said discarding step comprises the step of discarding said data packet segment associated with said first segment identifier, said pointer, a data packet segment associated with as said last segment pointeridentifier, and any intermediate data packet segments between said data packet segment associated with said first segment identifier-pointer and said data packet segment associated with said last segment identifier-pointer in said data buffer.

5. (currently amended) A system for managing a data buffer including a queue of consecutive data packet segments of data packets in a base station system of a mobile communications system, said system comprises electronic circuitry configured to:

- compare a size of a data packet segment with a size of a next consecutive data packet segment in said data buffer;
- identify a complete data packet comprising at least said data packet segment and said next consecutive data packet segment based on said comparison of said size of said data packet

segment and said size of said next consecutive data packet segment; and

- discard said identified complete data packet from said data buffer.

6. (currently amended) The system according to claim 5, wherein said electronic circuitry is configured to identify said next data packet segment as a first data packet of said complete data packet in said data buffer if said size of said data packet segment is smaller than said size of said next data packet segment, said system further comprises means for associating said identified first data packet segment with a first segment-identifier pointer.

7. (currently amended) The system according to claim 5, wherein said electronic circuitry is configured to identify said next data packet segment as a last data packet segment of said complete data packet in said data buffer if said size of said data packet segment differs from said size of said next data packet segment, said system further comprises means for associating said identified last data packet segment with a last segment-identifier pointer.

8. (currently amended) The system according to claim 6, wherein said electronic circuitry is configured to discard said data packet segment associated with said first segment-identifier, said-identifier-pointer, a data packet segment associated with said-a last segment-pointer identifier, and any intermediate data packet segments between said data packet segment associated with said first segment-identifier-pointer and said data packet segment associated with said last segment-identifier-pointer in said data buffer.

9. (currently amended) A base station network node of a base station system in a mobile

communications system comprising:

- a data buffer comprising a queue of consecutive data packet segments-of data packets;

and

- a system for managing said data buffer-according, said system comprises electronic circuitry configured to: claim 5

- compare a size of a data packet segment with a size of a next consecutive data packet segment in said data buffer;

- identify a complete data packet comprising at least said data packet segment and said next consecutive data packet segment based on said comparison of said size of said data packet segment and said size of said next consecutive data packet segment; and

- discard said identified complete data packet from said data buffer.

10. (currently amended) A method of enabling identification of a complete data packet comprising at least one data packet segment in a data buffer comprising a queue of consecutive data packet segments, comprising the steps of:

- comparing a size of a data packet segment with a size of a next consecutive data packet segment in said data buffer; and

- identifying asaid complete data packet in-said buffer based on said comparison of said size of said data packet segment with a size of said next consecutive data packet segment.

11. (currently amended) The method according to claim 10, further comprising the step of providing a segment counter associated with a data packet segment in said data buffer.

12. (currently amended) The method according to claim 11, further comprising the steps of:

- comparing a size of said data packet segment associated with said counter with a size of a next consecutive data packet segment in said data buffer;
- identifying said next data packet segment as a first data packet segment of said complete data packet in said data buffer if said size of said data packet segment associated with said counter is smaller than said size of said next data packet segment.

13. (currently amended) The method according to claim 11, further comprising the steps of:

- (a) comparing a size of the data packet segment currently associated with said counter with a size of a next consecutive data packet segment in said data buffer; and
- (b) associating said counter with said next data packet segment if said size of the data packet segment currently associated with said counter is equal to or larger than said size of said next data packet segment; and
- repeating both said comparison step (a) and said associating step (b) until said size of the data packet currently associated with said counter is smaller than said size of said next data packet segment, whereby said next data packet segment is identified as a first data packet segment of said complete data packet in said data buffer.

14. (previously presented) The method according to claim 12, further comprising the step of associating said segment counter with said first data packet segment of said complete data packet.

15. (currently amended) The method according to claim 14, further comprising the steps of:

- comparing a size of said data packet segment associated with said counter with a size of a next consecutive data packet segment in said data buffer; and

- identifying said next data packet segment as a last data packet segment of said complete data packet in said data buffer if said size of said data packet segment associated with said counter differs from said size of said next data packet segment.

16. (currently amended) The method according to claim 15, wherein said complete data packet is identified as comprising said first data packet segment of said complete data packet, said last data packet segment of said complete data packet and any intermediate data packet segments between said first and last data packet segment of said complete data packet in said data buffer.

17. (currently amended) The method according to claim 15, further comprising the steps of:

- determining a total size of said first data packet segment of said complete data packet, said last data packet segment of said complete data packet and any intermediate data packet segments between said first and last data packet segment of said complete data packet in said data buffer;

- comparing said total size with a minimum size threshold; and

- identifying said complete data packet as comprising said first data packet segment of said complete data packet, said last data packet segment of said complete data packet and any intermediate data packet segments between said first and last data packet segment of said complete data packet in said data buffer if said total size is larger than said minimum size threshold.

18. (currently amended) The method according to claim 11, further comprising the steps of:

- comparing a size of said data packet segment associated with said counter with a size of a next consecutive data packet segment in said data buffer; and
- identifying said next data packet segment as a last data packet segment of said complete data packet in said data buffer if said size of said data packet segment associated with said counter differs from said size of said next data packet segment.

19. (currently amended) The method according to claim 11, further comprising the steps of:

- (c) comparing a size of the data packet segment currently associated with said counter with a size of a next consecutive data packet segment in said data buffer;
- (d) associating said counter with said next data packet segment if said size of the data packet segment currently associated with said counter is equal to said size of said next data packet segment; and
- repeating both said comparison step (c) and said associating step (d) until said size of the data packet segment currently associated with said counter differs from said size of said next data packet segment, whereby said next data packet segment is identified as a last data packet segment of said complete data packet in said data buffer.

20. (currently amended) A system for enabling identification of a complete data packet comprising at least one data packet segment in a data buffer comprising a queue of consecutive data packet segments, comprising:

- means for comparing a size of a data packet segment with a size of a next consecutive

data packet segment in said data buffer; and

- means for identifying said complete data packet based on said comparison of said size of said data packet segment with said size of said next consecutive data packet segment.

21. (currently amended) The system according to claim 20, comprising means for associating a segment counter with a data packet segment in said data buffer.

22. (currently amended) The system according to claim 21, wherein said comparison means is adapted for comparing a size of said data packet segment associated with said counter with a size of a next consecutive data packet segment in said data buffer, wherein said identifying means is adapted for identifying said next data packet segment as a first data packet segment of said complete data packet in said data buffer if said size of said data packet segment associated with said counter is smaller than said size of said next data packet segment.

23. (currently amended) The system according to claim 21, wherein said comparison means is adapted for comparing a size of the data packet segment currently associated with said counter with a size of a next consecutive data packet segment in said data buffer, wherein said associating means is adapted for associating said counter with said next data packet segment if said size of the data packet segment currently associated with said counter is equal to or larger than said size of said next data packet segment, said comparison means is adapted for repeating said size comparison and said associating means is adapted for repeating said counter association until said size of the data packet segment currently associated with said counter is smaller than said size of said next data packet segment, whereby said identifying means is adapted for

identifying said next data packet segment as a first data packet segment of said complete data packet in said data buffer.

24. (previously presented) The system according to claim 22, wherein said associating means is adapted for associating said segment counter with said first data packet segment of said complete data packet.

25. (currently amended) The system according to claim 24, wherein said comparison means is adapted for comparing a size of said data packet segment associated with said counter with a size of a next consecutive data packet segment in said data buffer, wherein said identifying means is adapted for identifying said next data packet segment as a last data packet segment of said complete data packet in said data buffer if said size of said data packet segment associated with said counter differs from said size of said next data packet segment.

26. (currently amended) The system according to claim 25, wherein said identifying means is adapted for identifying said complete data packet as comprising said first data packet segment of said complete data packet, said last data packet segment of said complete data packet and any intermediate data packet segments between said first and last data packet segment of said complete data packet in said data buffer.

27. (currently amended) The system according to claim 25, further comprising means for determining a total size of said first data packet segment of said complete data packet, said last data packet segment of said complete data packet and any intermediate data packet segments

between said first and last data packet segment of said complete data packet in said data buffer, said comparison means is adapted for comparing said total size with a minimum size threshold, and said identifying means is adapted for identifying said complete data packet as comprising said first data packet segment of said complete data packet, said last data packet segment of said complete data packet and any intermediate data packet segments between said first and last data packet segment of said complete data packet in said data buffer if said total size is larger than said minimum size threshold.

28. (currently amended) The system according to claim 21, wherein said comparison means is adapted for comparing a size of said data packet segment associated with said counter with a size of a next consecutive data packet segment in said data buffer, wherein said identifying means is adapted for identifying said next data packet segment as a last data packet segment of said complete data packet in said data buffer if said size of said data packet segment associated with said counter differs from said size of said next data packet segment.

29. (currently amended) The system according to claim 21, wherein said comparison means is adapted for comparing a size of the data packet segment currently associated with said counter with a size of a next consecutive data packet segment in said data buffer, wherein said associating means is adapted for associating said counter with said next data packet segment if said size of the data packet segment currently associated with said counter is equal to said size of said next data packet segment, said comparison means is adapted for repeating said size comparison and said associating means is adapted for repeating said counter associating until said size of the data packet segment currently associated with said counter differs from said size

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of said next data packet segment, whereby said identifying means is adapted for identifying said  
next data packet segment as a last data packet segment of said complete data packet in said data  
buffer.